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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/761,122	01/20/2004	Huong Thanh Nguyen	005735/C1/DSM/LOW K	8790
	7590 05/17/200 & SHERIDAN, LLP	EXAMINER		
3040 POST OAK BOULEVARD, SUITE 1500			DUDA, KATHLEEN	
HOUSTON, TX 77056			ART UNIT	PAPER NUMBER
			1756	
			_	
		·	MAIL DATE	DELIVERY MODE
			05/17/2007	PAPER

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

Office Action Summary		Application No.	Applicant(s)	Applicant(s)				
		10/761,122	NGUYEN ET AL.					
		Ī	Examiner	Art Unit				
			Kathleen Duda	1756				
Period fo	The MAILING DATE of this commur or Reply	nication appe	ars on the cover sheet	with the correspondence a	ddress			
WHIC - Exter after - If NO - Failu Any r	ORTENED STATUTORY PERIOD F CHEVER IS LONGER, FROM THE Nations of time may be available under the provisions SIX (6) MONTHS from the mailing date of this come period for reply is specified above, the maximum state to reply within the set or extended period for reply eply received by the Office later than three months and patent term adjustment. See 37 CFR 1.704(b).	MAILING DA's of 37 CFR 1.136 munication. tatutory period will will, by statute, or	TE OF THIS COMMUN 5(a). In no event, however, may Il apply and will expire SIX (6) Micause the application to become	NICATION. a reply be timely filed  ONTHS from the mailing date of this of ABANDONED (35 U.S.C. § 133).				
Status								
1) 又	Responsive to communication(s) file	ed on 18 Oc	toher 2006					
	This action is <b>FINAL</b> . 2b)⊠ This action is non-final.							
′=	Since this application is in condition for allowance except for formal matters, prosecution as to the merits is							
-,—	closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.							
Dispositi	on of Claims			,				
4)⊠	4)⊠ Claim(s) <u>1-44</u> is/are pending in the application.							
	4a) Of the above claim(s) is/are withdrawn from consideration.							
	5) Claim(s) is/are allowed.							
	☑ Claim(s) 1-44 is/are rejected.							
	Claim(s) is/are objected to.							
	8) Claim(s) are subject to restriction and/or election requirement.							
	on Papers		·					
	•	o Evenines						
9) The specification is objected to by the Examiner.								
10) The drawing(s) filed on is/are: a) accepted or b) objected to by the Examiner.								
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).								
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).  11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.								
	inder 35 U.S.C. § 119	o by the Lxa	miner. Note the attach	ed Office Action of form P	10-152.			
	12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).							
a)L	a) All b) Some * c) None of:							
	1. Certified copies of the priority documents have been received.							
	2. Certified copies of the priority documents have been received in Application No							
	3. Copies of the certified copies of the priority documents have been received in this National Stage							
application from the International Bureau (PCT Rule 17.2(a)).								
* See the attached detailed Office action for a list of the certified copies not received.								
Attachment	, ,		_					
1) U Notice 2) Notice	e of References Cited (PTO-892) e of Draftsperson's Patent Drawing Review (P	OTO 040\		v Summary (PTO-413) o(s)/Mail Date				
2) ☐ Notice of Draksperson's Patent Drawing Review (PTO-946)  3) ☐ Information Disclosure Statement(s) (PTO/SB/08)  5) ☐ Notice of Informal Patent Application								
	No(s)/Mail Date		6) 🔲 Other:					

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#### **DETAILED ACTION**

1. Claims 1-44 are pending in this application.

## **Double Patenting**

2. The nonstatutory double patenting rejection is based on a judicially created doctrine grounded in public policy (a policy reflected in the statute) so as to prevent the unjustified or improper timewise extension of the "right to exclude" granted by a patent and to prevent possible harassment by multiple assignees. A nonstatutory obviousness-type double patenting rejection is appropriate where the conflicting claims are not identical, but at least one examined application claim is not patentably distinct from the reference claim(s) because the examined application claim is either anticipated by, or would have been obvious over, the reference claim(s). See, e.g., In re Berg, 140 F.3d 1428, 46 USPQ2d 1226 (Fed. Cir. 1998); In re Goodman, 11 F.3d 1046, 29 USPQ2d 2010 (Fed. Cir. 1993); In re Longi, 759 F.2d 887, 225 USPQ 645 (Fed. Cir. 1985); In re Van Ornum, 686 F.2d 937, 214 USPQ 761 (CCPA 1982); In re Vogel, 422 F.2d 438, 164 USPQ 619 (CCPA 1970); and In re Thorington, 418 F.2d 528, 163 USPQ 644 (CCPA 1969).

A timely filed terminal disclaimer in compliance with 37 CFR 1.321(c) or 1.321(d) may be used to overcome an actual or provisional rejection based on a nonstatutory double patenting ground provided the conflicting application or patent either is shown to be commonly owned with this application, or claims an invention made as a result of activities undertaken within the scope of a joint research agreement.

Effective January 1, 1994, a registered attorney or agent of record may sign a terminal disclaimer. A terminal disclaimer signed by the assignee must fully comply with 37 CFR 3.73(b).

3. Claims 1-44 are rejected on the ground of nonstatutory obviousness-type double patenting as being unpatentable over claims 1-44 of U.S. Patent No. 6,680,164. Although the conflicting claims are not identical, they are not patentably distinct from each other because the application recites a

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broader limitation than the patent which encompasses the limitations of the patent claims.

### Claim Rejections - 35 USC § 103

- 4. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
  - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 5. Claims 1-44 are rejected under 35 U.S.C. 103(a) as being unpatentable over Yeh (US Patent 6,130,166).

Yeh teaches a process of photoresist removal using a plasma. It is taught that the photoresist is formed on a dielectric layer (column 2, line 18) and then processed before being removed. It is taught that the removal occurs with a  $CF_4/H_2O_2$  plasma. Column 2, line 49, teaches that the  $H_2O_2$  can be an additive to a  $CF_4/H_2O$  plasma. The  $H_2O_2$  and  $H_2O$  produce -OH radicals. Column 3, lines 24-37, teaches the flow of the  $H_2O_2$  is about 600 sccm and the flow of the  $CF_4$  is about 360 sccm. It is taught that the plasma can include  $O_2$  and fluorocarbons.

Therefore, it would have been obvious to have used a plasma comprising H and water because Yeh teaches a plasma containing  $H_2O_2$  and

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 $H_2O$  with other additives which is taught to be an improvement over the prior art with complete removal of the photoresist.

#### Conclusion

6. Any inquiry concerning this communication should be directed to Examiner K. Duda at (571) 272-1383. Official FAX communications should be sent to (571) 273-8300.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Mark Huff, can be reached at 571-272-1385.

Information regarding the status of an application may be obtained from the Patent Application Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <a href="http://pair-direct.uspto.gov">http://pair-direct.uspto.gov</a>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Kathleen Duda Primary Examiner Art Unit 1756